

SUBSTITUTE SEQUENCE LISTING

<110> Sebald, Walter
 <120> Polypeptide Variants With Increased Heparin-Binding Ability
 <130> PA31187-01996/GRI
 <140> US 09/913,467
 <141> 2000-01-27
 <150> DE 199 06 096.7
 <151> 1999-02-13
 <160> 12
 <170> PatentIn Ver. 2.1
 <210> 1
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 <212> PRT
 <213> Artificial sequence
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 <222> (1)
 <223> K, R or H
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 <222> (2)
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 <223> K, R, H or no amino acid
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 amino acid
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 in polypeptide variant with increased heparin-binding ability
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1

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<210> 2
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<220>
<223> description artificial sequence: Oligopeptide insert
in polypeptide variant with increased heparin-binding ability

<220>
<221> MUTAGEN
<222> (1)
<223> K, R or H

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<222> (2)
<223> not K, R, H, but any other amino acid

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<400> 2
Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 3
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<212> PRT
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<220>
<223> description artificial sequence:
heparin-binding sequence

<400> 3
Arg Lys Arg Ala
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<210> 4
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<220>
<223> description artificial sequence:
heparin-binding sequence

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Arg Lys Arg Ala Lys His Lys Gln
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<210> 5
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<212> PRT
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<220>
<223> description artificial sequence: T3

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1 5 10 15
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20 25 30
Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr His Ala Phe Tyr
35 40 45
Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr
50 55 60
Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Lys Ile
65 70 75 80
Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu
85 90 95
Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn Tyr Gln Asp Met
100 105 110
Val Val Glu Gly Cys Gly Cys Arg
115 120

<210> 6
<211> 124
<212> PRT
<213> Artificial sequence

<220>
<223> description artificial sequence:T4

<400> 6
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1 5 10 15

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Phe	Ser	Asp	Val	Gly	Trp	Asn	Asp	Trp	Ile	Val	Ala	Pro	Pro	Gly	Tyr	
			35				40						45			
His	Ala	Phe	Tyr	Cys	His	Gly	Glu	Cys	Pro	Phe	Pro	Leu	Ala	Asp	His	
			50				55						60			
Leu	Asn	Ser	Thr	Asn	His	Ala	Ile	Val	Gln	Thr	Leu	Val	Asn	Ser	Val	
			65				70						75			
Asn	Ser	Lys	Ile	Pro	Lys	Ala	Cys	Cys	Val	Pro	Thr	Glu	Leu	Ser	Ala	
			85						90						95	
Ile	Ser	Met	Leu	Tyr	Leu	Asp	Glu	Asn	Glu	Lys	Val	Val	Leu	Lys	Asn	
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ctcccccg	gtatcacgcc	ttttactgcc	acggagaatg	cccttttcct	ctggctgatc	180
atctgaactc	cactaatcat	gccattgttc	agacgttggt	caactctgtt	aactctaaga	240
ttcctaaggc	atgctgtgtc	ccgacagaac	tcagtgtcat	ctcgatgctg	taccttgacg	300
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<223> description artificial sequence: T4
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<210> 9
<211> 47

<212> DNA
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 <220>
 <223> description artificial sequence: Insert
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 <400> 9
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 <210> 10
 <211> 47
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> description artificial sequence: Insert
 between NcoI and AflII restriction sites

 <400> 10
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 <210> 11
 <211> 59
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> description artificial sequence: Insert
 into BMP-2 cDNA

 <400> 11
 catggctcaa gccaaacaca aacagcggaa acgcgctaag cataagcaac gtaagcgtc 59

 <210> 12
 <211> 59
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> description artificial sequence: Insert
 into BMP-2 cDNA

 <400> 12
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